



WIRELESS LAN CONTROLLER

# FortiWLC™-50D

QuickStart Guide



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# Package contents

The box should contain:

- FortiWLC 50D appliance
- FortiWLC 50D QuickStart Guide
- Power cable
- Ethernet cable
- Console cable
- 4 Rubber feet
- 2 Rack-mount brackets
- 6 Bracket screws



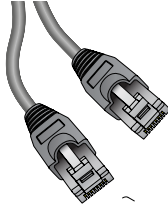
Power Cable



Console Cable



Ethernet Cable



4 Rubber Feet



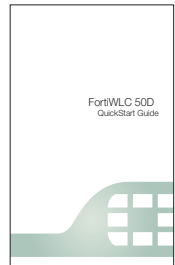
6 Bracket Screws



2 Rack-Mount Brackets



QuickStart Guide



# About FortiWLC-50D

The FortiWLC-50D is designed for small to medium-scale site deployments, such as small offices or remote branch sites. It supports customers requiring Layer 1-4 security, Gigabit Ethernet, and affordable performance and can support up to 50APs.

## IMPORTANT

FortiWLC-50D is supported ONLY from System Director 8.0-SR1 and later.

## Prepare for Installation

Before you begin the installation, make sure you have the following

Item	Description
WLAN Equipment	- FortiWLC-50D controller (two, if installing a redundant configuration) - Up to 50 APs per controller
Ethernet switch	Layer 2 switches or a mix of Layer 3 and Layer 2 Gigabit switches with sufficient ports for the controller and all of the access points
Power over Ethernet	If power is not provided by the Ethernet switch, then PoE power injectors can be used between the switch and the access points.
Power	AC power outlets for both the switch and the controller.
Null modem cable	Serial cable with DB-9 female and RJ-45 connectors.
Ethernet cabling	CAT5 Ethernet cable.
Controller IP settings	IP configuration settings for the controller (static or dynamic IP address and netmask, gateway server)
RADIUS server (optional)	IP address and passphrase for a RADIUS server providing 802.1X security.

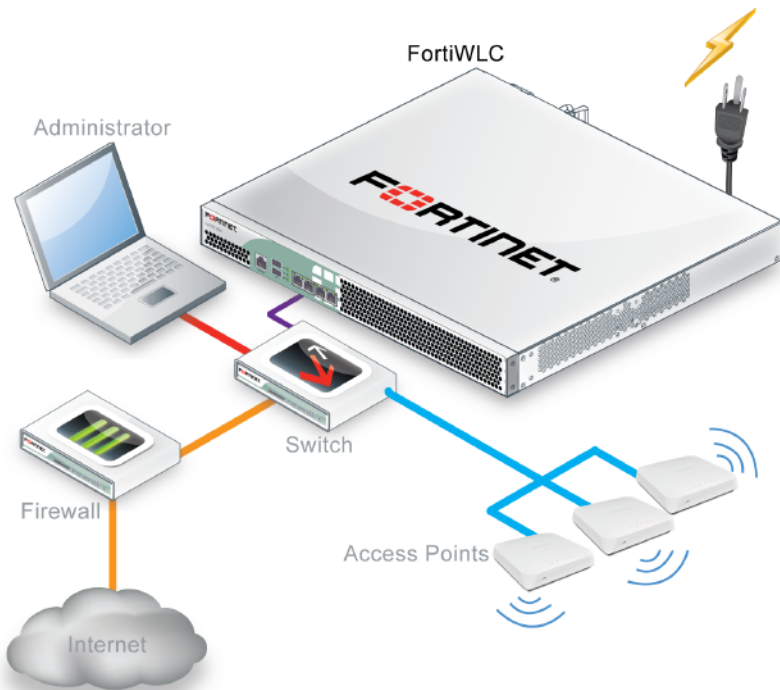
# Connecting to FortiWLC

FortiWLC appliances should be installed in a restricted access location such as a locked data center to ensure their physical security, which is fundamental to your network security. Either place the FortiWLC appliance on a flat surface, or mount it in any standard 19 inch (48.3 cm) rack with the rack-mount brackets. In a rack, a FortiWLC-50D occupies 1U (1.77 inches/4.45 cm).

You can configure the FortiWLC for your network through a connection to its command line interface (CLI).

Connect the FortiWLC only to your computer until you finish setup. (If you place the FortiWLC in your network before setting up, the traffic could be interrupted until the setup is complete.) **Detailed instructions are in the [System Director Configuration Guide](#).**

One typical, basic network topology is shown below.



## To connect to the CLI via serial console

**Requires:** Terminal emulator such as [PuTTY](#), Tera Term, or a terminal server

1. Using the console cable, connect the appliance's console port to your terminal server or computer.
2. On your computer or terminal server, start the terminal emulator. Use these settings:
  - *Baud rate:* 115200
  - *Data bits:* 8
  - *Parity:* None
  - *Stop bits:* 1
  - *Flow control:* None
3. Press Enter on your keyboard to connect to the CLI.
4. Connect the provided power cord to the chassis and a wall outlet. The FortiWLC powers up automatically when the power cord is plugged in and, unlike other controllers, beeps only once at power up.
5. Press the FortiWLC power button to turn the unit off and then back on; you should see the bootup sequence start on your computer. Wait until bootup completes.
6. From the terminal session, initiate the setup command (login and password are both admin), as described in the "Performing an Initial Setup" section of the System Director Configuration Guide.
7. Perform controller configuration and ESS configuration, as described in the remaining sections of the System Director Configuration Guide. Once the unit is operating, the LEDs described in the next section are active.

# Shutting down



**Always** properly shut down the FortiWLC appliance's operating system before turning off the power switch or unplugging the appliance. This causes it to finish writing buffered data, and to slow and park the hard disks.

**Do not unplug or switch off the FortiWLC appliance before halting the operating system. Failure to shut down correctly could cause data loss and hardware problems.**

## To power off the appliance:

Use the **poweroff controller** CLI command before switching the controller off with the Power On/Off switch. The command gracefully brings the controller down to a state where power can safely be removed using the power switch.

# Registering your product

## Register

You must register the product with Fortinet in order to receive:

- Technical support • Software updates

## Enregistrer

Vous devez enregistrer le produit pour recevoir:

- Support technique • Mises-à-jour logiciel

## Registra

La registrazione vi permette di usufruire di:

- Supporto tecnico • Aggiornamenti software

## Registrar

Debe registrar el producto para recibir:

- Apoyo técnico • Actualizaciones del software

## 登録のお願い

下記フォーティネットからのサービスを受けるために、ご購入製品の登録が必要です。

- テクニカルサポート • ソフトウェアのアップデート

## 请马上注册

您的飞塔产品

您在注册以后才能得到技术支持, 软件升级



Web: <https://support.fortinet.com/>

Toll free: 1 866 648 4638

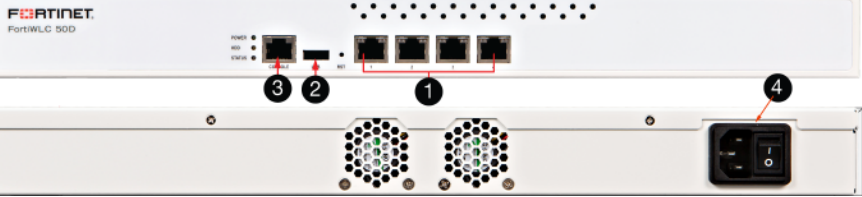
Phone: 1 408 486 7899

Fax: 1 408 235 7737

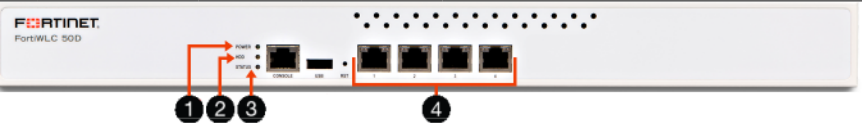
Email: [register@fortinet.com](mailto:register@fortinet.com)



# Ports & LEDs



#	Interface	Type	Protocol	Description
1	Ethernet Ports 1 - 4	RJ-45	1 Gbps	Connections to your network & the Internet.
2	USB Ports 1	USB-A	USB 2.0	
3	Console	RJ-45	RS-232 serial	Connection to the management computer. 115200 bps access to the CLI.
4	Power			100 - 240 V AC 60 - 50 Hz 1.5A



#	LED	State	Description
1	Power (Bottom)	Green	The appliance is receiving power.
2	Hard Drive (Top)	Amber	Read or write activity.
3	Status (Middle)	Off	System is normal.
		Red	System failure.
4	Network Activity (Left)	Green	Link detected.
		Flashing	Port is transmitting & receiving data.
		Off	Link not detected. (Cable may be disconnected/damaged.)
	Network Speed (Right)	Green	1 Gbps link.
		Amber	100 Mbps link.
		Off	10 Mbps link.

# Cautions and warnings

## Environmental specifications

Rack Mount Instructions — The following or similar rack-mount instructions are included with the installation instructions:

Instructions de montage en rack — Les instructions de montage en rack suivantes ou similaires sont incluses avec les instructions d'installation:

**Elevated Operating Ambient** — If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T<sub>ma</sub>) specified by the manufacturer.

**Température ambiante élevée** — S'il est installé dans un rack fermé ou à unités multiples, la température ambiante de fonctionnement de l'environnement du rack peut être supérieure à la température ambiante de la pièce. Par conséquent, il est important d'installer le matériel dans un environnement respectant la température ambiante maximale (T<sub>ma</sub>) stipulée par le fabricant.

**Reduced Air flow** — Installation of the equipment in a rack should be such that the amount of air flow required for safe operation of the equipment is not compromised.

**Ventilation réduite** — Installation de l'équipement dans un rack doit être telle que la quantité de flux d'air nécessaire au bon fonctionnement de l'équipement n'est pas compromise.

**Mechanical Loading** — Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

**Chargement Mécanique** — Montage de l'équipement dans le rack doit être telle qu'une situation dangereuse n'est pas liée à un chargement mécanique inégal.

**Circuit overloading** — Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on overcurrent protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

**Sur tension** — Il convient de prendre l'ensemble des précautions nécessaires lors du branchement de l'équipement au circuit d'alimentation et être particulièrement attentif aux effets de la suralimentation sur le dispositif assurant une protection contre les courts-circuits et le câblage. Ainsi, il est recommandé de tenir compte du numéro d'identification de l'équipement.

**Reliable earthing** — Reliable earthing of rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuit (e.g. use of power strips).

**Fiabilité de la mise à la terre** — Fiabilité de la mise à la terre de l'équipement monté en rack doit être maintenue. Une attention particulière devrait être accordée aux connexions d'alimentation autres que les connexions directes au circuit de dérivation (par exemple de l'utilisation de bandes de puissance).

*Refer to specific Product Model Data Sheet for Environmental Specifications (Operating Temperature, Storage Temperature, Humidity, and Altitude)*

*Référez à la Fiche Technique de ce produit pour les caractéristiques environnementales (Température de fonctionnement, température de stockage, humidité et l'altitude).*

## Safety

**Battery** — Risk of explosion if the battery is replaced by an incorrect type. Do not dispose of batteries in a fire. They may explode. Dispose of used batteries according to your local regulations. IMPORTANT: Switzerland: Annex 4.10 of SR814.013 applies to batteries.

**Batterie** — Risque d'explosion si la batterie est remplacée par un type incorrect. Ne jetez pas les batteries au feu. Ils peuvent exploser. Jetez les piles usagées conformément aux réglementations locales. IMPORTANT: Suisse: l'annexe 4.10 de SR814.013 s'appliquent aux batteries.

### 警告

本電池如果更換不正確會有爆炸的危險  
請依製造商說明書處理用過之電池

**Caution:** Disconnect power supply cords before servicing.

**Attention:** Débranchez les cordons de la source d'alimentation avant tout entretien.

# Regulatory notices

## Federal Communication Commission (FCC) – USA

This device complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, and if it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

**Warning:** Any changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## Industry Canada Equipment Standard for Digital Equipment (ICES) – Canada

CAN ICES-3 (A) / NMB-3 (A)

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Cet appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique édicté par le ministère des Communications du Canada.

## European Conformity (CE) – EU

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.



## Japan

### Voluntary Control Council for Interference (VCCI)

この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。VCCI-A

### Product Safety Electrical Appliance & Material (PSE)

日本では電気用品安全法(PSE)の規定により、同梱している電源コードは本製品の専用電源コードとして利用し、他の製品に使用しないでください。

## **Taiwan**

### **Bureau of Standards Metrology and Inspection (BSMI)**

這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。

## **China**

此为A级产品，在生活环境中，该产品可能会造成无线电干扰。这种情况下，可能需要用户对其采取切实可行的措施。

# License agreement & warranty

The parties to this agreement are you, the end customer, and either (i) where you have purchased your Product within the Americas, Fortinet, Inc., or (ii) where you have purchased your Product outside of the Americas, Fortinet Singapore Private Limited (each referred to herein as "Fortinet"). CAREFULLY READ THE FOLLOWING LEGAL AGREEMENT (THE OR THIS "AGREEMENT" OR "EULA"). USE OF FORTINET PRODUCT(S) AND ANY UPDATES THERETO, INCLUDING HARDWARE APPLIANCE PRODUCTS, SOFTWARE AND FIRMWARE INCLUDED THEREIN BY FORTINET, AND STAND-ALONE SOFTWARE PRODUCTS SOLD BY FORTINET (TOGETHER, THE "PRODUCTS") CONSTITUTES ACCEPTANCE BY YOU OF THE PROVISIONS IN THIS AGREEMENT. FORTINET SHALL NOT BE BOUND BY ANY ADDITIONAL AND/OR CONFLICTING PROVISIONS IN ANY ORDER, RELEASE, ACCEPTANCE OR OTHER WRITTEN CORRESPONDENCE OR OTHER WRITTEN OR VERBAL COMMUNICATION UNLESS EXPRESSLY AGREED TO IN A WRITING SIGNED BY THE GENERAL COUNSEL OF FORTINET. YOUR INSTALLATION OR USE OF ANY PRODUCT REPRESENTS AGREEMENT TO THE TERMS HEREIN, AS AMENDED OR UPDATED FROM TIME TO TIME IN FORTINET'S DISCRETION BY FORTINET PUBLISHING AN AMENDED OR UPDATED VERSION. IF YOU DO NOT AGREE TO ALL OF THE TERMS OF THIS AGREEMENT, DO NOT START THE INSTALLATION PROCESS OR USE THE PRODUCTS. IF YOU DO NOT AGREE TO THE PROVISIONS OF THIS AGREEMENT, YOU SHOULD IMMEDIATELY, AND IN NO EVENT LATER THAN FIVE (5) CALENDAR DAYS AFTER YOUR RECEIPT OF THE PRODUCT RETURN THE PRODUCTS TO THE LOCATION WHERE YOU OBTAINED THEM FOR A FULL REFUND FROM THE PARTNER SELLING TO YOU.

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Product(s) as provided for in this Agreement. Further, if you are a non-authorized reseller of Products, you are not authorized to sell Product(s) or Software, but, regardless, by selling Product(s) or Software, you hereby agree you are bound by the restrictions and obligations herein and are bound to: (i) ensure that your customer and the end user receive a copy of this Agreement and are bound in full by all restrictions and obligations herein (ii) enforce the restrictions and obligations in this Agreement against such customer and/or end user, (iii) comply with all applicable United States export control laws and regulations and all other applicable laws, and (iv) refund any fees paid to you by a customer and/or end user who purchased Product(s) from you but does not agree to the restrictions and obligations contained in this Agreement and therefore wishes to return the Product(s) as provided for in this Agreement. Notwithstanding anything to the contrary, distributors, resellers and other Fortinet partners (a) are not agents of Fortinet and (b) are not authorized to bind Fortinet in any way.

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Fortinet provides this limited warranty for its product only to the single end-user person or entity that originally purchased the Product from Fortinet or its authorized reseller or distributor and paid for such Product. The warranty is only valid for Products which are registered on Fortinet's Support Website: <https://support.fortinet.com>; or on the TalkSwitch support website: <http://global.talkswitch.com>; or such other website as provided by Fortinet. For the below software warranty to start, registration must take place within three hundred sixty-five (365) days from the date the Product was originally shipped from Fortinet's facilities or the warranty is null and void and will not be honored. For the hardware warranty, such warranty starts on the earlier of the date of Product registration on Fortinet's Support Website or ninety (90) days from the date that the Product was originally shipped from Fortinet's facilities. It is the Fortinet distributor's and reseller's responsibility to make clear to the end user the date the product was originally shipped from Fortinet, and it is the end user's responsibility to understand the original ship date from the party from which the end user purchased the product. All warranty claims must be submitted in writing to Fortinet before the expiration of the warranty term or such claims are waived in full, i.e. ninety (90) days from the earlier of registration or the automatically started term for hardware and spare parts claims and three hundred sixty-five (365) days from registration within three hundred sixty-five (365) days from shipment for software claims. Fortinet provides no warranty for any beta, donation or evaluation Products, for any spare parts not purchased directly from Fortinet by the end-user, for any accessories, or for any stand-alone software.

Fortinet warrants that the hardware portion of the Products, including spare parts unless noted otherwise ("Hardware") will be free from material defects in workmanship as compared to the functional specifications for the period set forth as follows and applicable to the Product type ("Hardware Warranty Period"): a three hundred sixty-five (365) day limited warranty for the Hardware excluding spare parts, power supplies, and accessories (provided, solely with respect to FortiAP indoor Wi-Fi access point Hardware appliance products and FortiSwitch Hardware appliance products other than the FortiSwitch-5000 series (for both excluding spare parts, power supplies, and accessories), the warranty herein shall last from the start of the warranty period as discussed above until five (5) years following the product announced end-of-life date), and, for spare parts, power supplies, and accessories, solely a ninety (90) days limited warranty. Fortinet's sole obligation shall be to repair or replace the defective Hardware at no charge to the original owner. This obligation is exclusive of transport fees, labor or installation costs, and any other cost which are not directly associated to the Product. Such repair or replacement will be rendered by Fortinet at an authorized Fortinet service facility as determined by Fortinet. The replacement Hardware need not be new or of an identical make, model, or part; Fortinet may, in its discretion, replace the defective Hardware (or any part thereof) with any reconditioned Product that Fortinet reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. The Hardware Warranty Period for the repaired or replacement Hardware shall be for the greater of the remaining Hardware Warranty Period or ninety days from the delivery of the repaired or replacement Hardware. If Fortinet determines in its reasonable discretion that a material defect is incapable of correction or that it is not practical to repair or replace defective Hardware, the price paid by the original purchaser for the defective Hardware will be refunded by Fortinet upon return to Fortinet of the defective Hardware. All Hardware (or part thereof) that is replaced by Fortinet, or for which the purchase price is refunded, shall become the property of Fortinet upon replacement or refund.

Fortinet warrants that the software portion of Hardware Products will substantially conform to Fortinet's then current functional specifications for the Software, as set forth in the applicable documentation for a period of ninety (90) days ("Software Warranty Period"), if the Software is properly installed on approved Hardware and operated as contemplated in its documentation. Fortinet's sole obligation shall be to repair or replace the non-conforming Software with software that substantially conforms to Fortinet's functional specifications. Except as otherwise agreed by Fortinet in writing, the replacement Software is provided only to the original licensee, and is subject to the terms and conditions of the license granted by Fortinet for the Software. The Software Warranty Period shall extend for an additional ninety (90) days after any replacement software is delivered. If Fortinet determines in its reasonable discretion that a material non-conformance is incapable of correction or that it is not practical to repair or replace the non-conforming Software, the price paid by the original licensee for the non-conforming Software will be refunded by Fortinet; provided that the non-conforming Software (and all copies thereof) is first returned to Fortinet. The license granted respecting any Software for which a refund is given automatically terminates immediately upon refund. For purpose of the above hardware and software warranties, the term "functional specifications" means solely those specifications authorized and published by Fortinet that expressly state in such specifications that they are the functional specifications referred to in this section 6 of this Agreement, and, in the event no such specifications are provided to you with the Software or Hardware, there shall be no warranty on such Software.

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THE HARDWARE WARRANTY PERIOD DISCUSSED ABOVE DOES NOT APPLY TO CERTAIN FORTINET PRODUCTS, INCLUDING FORTIFONE WHICH HAS A NINETY (90) DAY LIMITED WARRANTY AND FORTITOKEN WHICH HAS A 365 DAY WARRANTY FROM THE DATE OF SHIPMENT FROM FORTINET'S FACILITIES, AND THE SOFTWARE WARRANTY DOES NOT APPLY TO CERTAIN FORTINET PRODUCTS, INCLUDING FORTIGATE-ONE AND VDOM SOFTWARE.

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#### 9. Limitation of Liability.

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1st Edition

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